



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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www.ct.gov/csc

CERTIFIED MAIL RETURN RECEIPT REQUESTED

September 8, 2015

Dawn Mahoney, Esq.
General Counsel
Doosan Fuel Cell America, Inc.
195 Governor's Highway
South Windsor, CT 06074

RE: **PETITION NO. 1173** – Doosan Fuel Cell America, Inc. petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of two 400-kilowatt Customer-Side Fuel Cells to be located at Amgraph Packaging, Inc., 90 Inland Road, Sprague, Connecticut

Dear Attorney Mahoney:

At a public meeting held on September 3, 2015, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need, with the following conditions:

- Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
- Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of Sprague, and the Town of Lisbon;
- The facility owner/operator shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v;
- This Declaratory Ruling may be transferred, provided the facility owner/operator/transferor is current with payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v and the transferee provides written confirmation that the transferee agrees to comply with the terms, limitations and conditions contained in the Declaratory Ruling, including timely payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v; and

- If the facility owner/operator is a wholly owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated July 10, 2015, and supplemental information dated August 4, 2015 and August 11, 2015, and in compliance with Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,

Robert Stein **UAB**

Robert Stein
Chairman

RS/MP/lm

Enclosure: Staff Report dated September 3, 2015

- c: The Honorable Catherine A. Osten, First Selectman, Town of Sprague
Joseph Smith, Zoning Enforcement Officer, Town of Sprague
The Honorable Thomas W. Sparkman, First Selectman, Town of Lisbon
Robert D. Adams, Chairman, Planning and Zoning Commission, Town of Lisbon
Josh Abrams, Installation Manager, Doosan Fuel Cell America, Inc.
Amgraph Packaging Inc.



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Petition No. 1173

Doosan Fuel Cell America, Inc.

Sprague, Connecticut

Staff Report

September 3, 2015

On July 16, 2015, the Connecticut Siting Council (Council) received a petition from Doosan Fuel Cell America Inc. (DFCA) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the installation of an 800-kilowatt (kW) fuel cell facility at Amgraph Packaging Inc. (Amgraph) located at 90 Inland Road, Sprague, Connecticut. Upon initial review, staff deemed the petition incomplete on July 21, 2015 for lack of notice to the Town of Sprague, abutting property owners and municipal and state agencies. DFCA provided the appropriate notice on August 4, 2015 and August 11, 2015. This Petition was field reviewed on August 24, 2015 by Council member James J. Murphy, Jr. and Council staff members Michael Perrone and Cymon Holzschuh. Josh Abrams, Installation Manager, DFCA and John Connelly, Jr., Chief Process Engineer, Amgraph also attended the field review.

Amgraph is an industrial facility that manufactures packaging for the food industry. Amgraph is located on an industrial-zoned parcel located west of Inland Road in Sprague. Located to the north are the Providence-Worcester Railroad tracks and undeveloped land on the north side of the tracks. To the east is Inland Road and residential properties on the opposite side of Inland Road (located in the Town of Lisbon). To the south and west, the land is undeveloped. The nearest residential structure is located over 600 feet to the east.

DFCA proposes to install the fuel cell facility on the south side of the Amgraph building on a grass area directly south of its existing paved access drive. No new access would be required for this project. The building's parking area and number of parking locations would not be impacted.

The facility would consist of two 400-kW DFCA phosphoric acid fuel cell units to serve as a customer-side distributed resources project. The overall dimensions of each fuel cell unit would be approximately 27 feet 4 inches long, 8 feet 4 inches wide, and 9 feet 11 inches high. Two cooling modules would be installed. The overall dimension of each cooling module would approximately be 15 feet 11 inches long, 7 feet 10 inches wide, and 6 feet tall. The fuel cell units, cooling modules, and other associated equipment would be installed on a trapezoid-shaped concrete pad with an approximate length of 85 feet 6 inches and width of 29 feet 10 inches.

The facility would be interconnected to the building's electrical system via an underground connection to the rear of the building. The fuel cell would provide much of the building's baseload power during normal business hours. Any surplus electricity, which may be available during weekends or weekday periods of less demand, would feed into Eversource's distribution system via a net metering arrangement.

The proposed fuel cell facility would be fueled by natural gas to be supplied by Eversource f/k/a Yankee Gas. The Amgraph building does not currently have natural gas utility service and uses oil and propane for internal uses (e.g. heating and/or industrial processes). However, this fuel cell project would afford Amgraph the opportunity to bring natural gas service into the subject property to supply the fuel cell facility and to support a natural gas conversion for the Amgraph building. Natural gas would enter the eastern side of the subject property and be run underground with service to the fuel cell to be provided behind the building. (Natural gas service would be provided on or about November 2015.) As an additional benefit, the high and low grade heat recovery would be connected to the fuel cell such that its waste heat could be utilized by Amgraph for heating and industrial processes.



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Visual impact from the proposed project would be minimal due to a distance of over 600 feet to the nearest residential property, intervening trees (east of Inland Road), and the existing industrial nature of the site. Furthermore, an existing deciduous tree located directly next to (i.e. east of) the fuel cell location would remain and would provide some screening along the sight line to the nearest home. The fuel cell facility would comply with all applicable Department of Energy and Environmental Protection (DEEP) air and water quality standards. The facility would meet DEEP noise regulations without the need for sound remediation.

The facility would be remotely monitored by DFCA on a 24/7 basis to detect abnormalities in operation. The fuel cell facility is designed in accordance with American National Standards Institute and Canadian Standards Association (ANSI/CSA) America FC 1-2004 for stationary fuel cell power systems and includes extensive safety control systems, including both automatic and manual shutdown mechanisms that comply with pertinent engineering standards. Bollards would be installed along the northern side of the fuel cell equipment area along the existing access drive to protect the fuel cell and its equipment from being accidentally struck by vehicles.

The Connecticut Public Utilities Regulatory Authority (PURA), in its Final Decision in Docket No. 11-12-06, awarded Amgraph a 15-year Low Emissions Renewable Energy Credit contract for the Class I renewable energy that the new fuel cell system generates, as defined in Conn. Gen. Stat. § 16-1(a)(26)(A).

DFCA mailed notification of the project to abutting property owners, Town of Sprague, Town of Lisbon (located within 2,500 feet of project location), and required state agencies and officials on or about August 5, 2015. The Council has not received any comments to date.

The proposed installation of the fuel cell is not expected to have any substantial adverse environmental impacts. It would reduce the emission of air pollutants that contribute to smog, acid rain, and global climate change. It would also contribute to the state's use of renewable energy.

Aerial view of Amgraph property.

